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### **Abstract of the Disclosure**

[0040] Decanter mooring systems and methods are provided. Decanter mooring systems of the invention include a decanter having a discharge orifice, the decanter disposed within a reactor containing a liquid and adapted to move vertically in relation to the surface of the liquid, a discharge conduit connected to the discharge orifice so as to be moveable in relationship with the decanter, and a stabilizing arm having a first end moveably connected to the reactor in a manner to limit the lateral movement of the decanter in the reactor.

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